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(54) METHOD AND APPARATUS FOR DISPLAYING A CONVERSATION INTERFACE

(57) The disclosure relates to a method and an apparatus for displaying a conversation interface, which belongs to a mobile communication terminal field. The method comprises: displaying (101) a caller identification display interface when a call request is received from a calling party; obtaining (102) a dynamic image associated with the calling party while displaying the caller identification display interface; and displaying (103) the dynamic image in the caller identification display interface. The opposite party in the conversation is indicated by using dynamic images so that the display effect is diversified and visualized, which improves usage experience and visual experience of users.

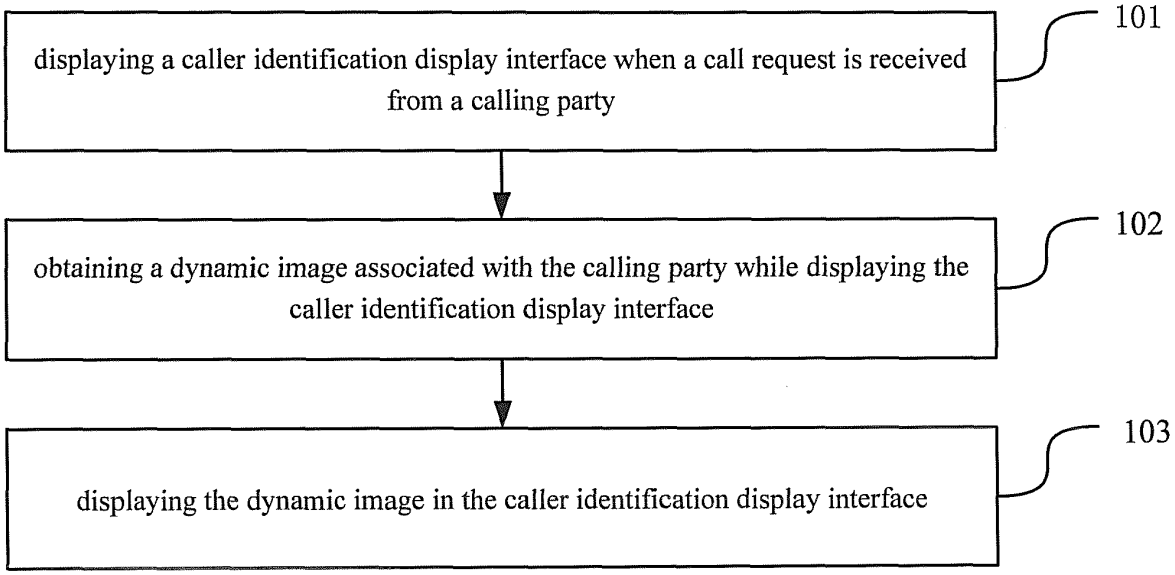


FIG. 1

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Description

FIELD

[0001] The disclosure relates to a mobile communication terminal field, and particularly relates to a method and an apparatus for displaying a conversation interface.

BACKGROUND

[0002] Mobile phones, which act as commonly used communication tools, provide great convenience for long distance communication of people. Currently, a static image related to opposite party can be displayed in the conversation interface to visualize the opposite party in calling when both parties are in a conversation.

SUMMARY

[0003] In view of the problem in related arts, a method and an apparatus for displaying a conversation interface are provided in the disclosure.

[0004] Embodiments of the disclosure provide a method and an apparatus for displaying a conversation interface. The technical solutions are as follows.

[0005] According to a first aspect of the disclosure, a method for displaying a conversation interface used (or implemented) in a terminal is provided, and the method comprises: displaying a caller identification display interface when a call request is received from a calling party; obtaining a dynamic image associated with the calling party while displaying the caller identification display interface; and displaying the dynamic image in the caller identification display interface.

[0006] In one embodiment, the method further comprises: processing a stored static image associated with the calling party based on a predetermined image generation template so as to obtain and store a dynamic image associated with the calling party; or recording and storing dynamic images of a predetermined duration, in association with the calling party, by opening a video recorder.

[0007] In one embodiment, said processing of the stored static image associated with the calling party based on the predetermined image generation module so as to obtain and store the dynamic image associated with the calling party comprises: determining if a current system time is a predetermined date; if the current system time is the predetermined date, obtaining the predetermined image generation template corresponding to the predetermined date; inserting the static image associated with the calling party into the obtained predetermined image generation template (or applying the obtained predetermined image generation template to the static image associated with the calling party) to generate the dynamic image associated with the calling party.

[0008] In one embodiment, the method further comprises: displaying a call request interface when calling a called party; obtaining a dynamic image associated with the called party while displaying the call request interface; and displaying the dynamic image associated with the called party in the call request interface.

[0009] In one embodiment, the method further comprises: when receiving a request for viewing detailed information of a contact in an address book, displaying an information display interface of the contact and displaying a dynamic image associated with the contact in the information display interface.

[0010] In one embodiment, the method further comprises: providing an information editing entry for a user to edit the dynamic image associated with the contact.

[0011] According to a second aspect of the disclosure, an apparatus for displaying a conversation interface used in terminals is provided, and the apparatus comprises: a first display module configured to display a caller identification display interface when a call request is received from a calling party; an image obtaining module configured to obtain a dynamic image associated with the calling party while the first display module displays the caller identification display interface and display the dynamic image in the caller identification display interface displayed by the first display module.

[0012] In one embodiment, the apparatus further comprises: a first image generation module configured to process a stored static image associated with the calling party based on a predetermined image generation template so as to obtain and store a dynamic image associated with the calling party; or a second image generation module configured to record and store dynamic images of a predetermined duration, in association with the calling party, by opening a video recorder.

[0013] In one embodiment, the first image generation module comprises: a decision unit configured to determine if a current system time is a predetermined date; an obtaining unit configured to obtain the predetermined image generation template corresponding to the predetermined date if the current system time is the predetermined date; an image generation unit configured to insert the static image associated with the calling party into the obtained predetermined image generation template (or to apply the obtained predetermined image generation template to the static image associated with the calling party) to generate the dynamic image associated with the calling party.

[0014] In one embodiment, the first display module is further configured to display a call request interface when calling a called party (i.e. when the apparatus is calling the called party); the image obtaining module is further configured to obtain a dynamic image associated with the called party while the first display module displays the call request interface, and display the dynamic image associated with the called party in the call request interface displayed by the first display module.

[0015] In one embodiment, the apparatus further comprises: a second display module configured, when receiving a request for viewing detailed information of a

contact in an address book, to display an information display interface of the contact and display a dynamic image associated with the contact in the information display interface.

[0016] In one embodiment, the apparatus further comprises: an editing module configured to provide an information editing entry for a user to edit the dynamic image associated with the contact.

[0017] According to a particular embodiment of the disclosure, a computer program is also provided. The computer program performs the steps of the method as defined above when this program is executed by a computer.

[0018] This program can use any programming language and take the form of source code, object code or a code intermediate between source code and object code, such as a partially compiled form, or any other desirable form.

[0019] The disclosure is also directed to a computer-readable information medium containing instructions of the computer program as defined above.

[0020] The information medium can be any entity or device capable of storing the program. For example, the support can include storage means such as a ROM, for example a CD ROM or a microelectronic circuit ROM, or magnetic storage means, for example a diskette (floppy disk) or a hard disk.

[0021] The information medium can also be an integrated circuit in which the program is incorporated, the circuit being adapted to execute the method in question or to be used in its execution

[0022] According to a third aspect of the disclosure, a terminal device is provided, and the terminal device comprises: a processor; a memory configured to store instructions executable by the processor; wherein the processor is configured to: display a caller identification display interface when a call request is received from a calling party; obtain a dynamic image associated with the calling party while displaying the caller identification display interface; and display the dynamic image in the caller identification display interface.

[0023] Embodiments of the disclosure may provide the following beneficial effects: displaying a caller identification display interface when a call request is received from a calling party; obtaining a dynamic image associated with the calling party while displaying the caller identification display interface; and displaying the dynamic image in the caller identification display interface. The opposite party in the conversation is indicated by using dynamic images so that the display effect is diversified and visualized, which improves usage experience and visual experience of users.

[0024] It should be understood that both the forgoing general description and the following detailed description are exemplary only, and are not restrictive of the present disclosure.

BRIEF DESCRIPTION OF THE DRAWINGS

[0025] The accompanying drawings, which are incorporated in and constitute a part of this specification, illustrate embodiments consistent with the disclosure and, together with the description, serve to explain the principles of the disclosure.

Fig. 1 is a flow diagram of a method for displaying a conversation interface according to an exemplary embodiment.

Fig. 1A-1D show a caller identification display interface according to an exemplary embodiment.

Fig. 1E shows a user interface for editing a dynamic image according to an exemplary embodiment.

Fig. 2A-2D show an information display interface of a contact in an address book according to an exemplary embodiment.

Fig. 2E shows a user interface for editing a dynamic image associated with the contact in the address book according to an exemplary embodiment.

Fig. 3 is a block diagram of an apparatus for displaying a conversation interface according to an exemplary embodiment.

Fig. 4 is a block diagram of an apparatus for displaying a conversation interface according to another exemplary embodiment.

Fig. 5 is a block diagram of a first image generation module according to the embodiment shown by Fig. 4.

Fig. 6 is a block diagram of an apparatus for displaying a conversation interface according to an exemplary embodiment.

Fig. 7 is a block diagram of an apparatus for displaying a conversation interface according to an exemplary embodiment.

[0026] The above figures have illustrated specific embodiments of the disclosure, the more detailed description will be provided hereinafter. These figures and word description are not intend to limit the scope of the disclosure in any manner, but just describe the concept of the disclosure to those skilled in the art by referring to the specific embodiments.

DETAILED DESCRIPTION

[0027] Reference will now be made in detail to exemplary embodiments, examples of which are illustrated in the accompanying drawings. The following description refers to the accompanying drawings in which same numbers in different drawings represent same or similar elements unless otherwise described. The implementations set forth in the following description of exemplary embodiments do not represent all implementations consistent with the disclosure. Instead, they are merely examples of devices and methods consistent with aspects related to the disclosure as recited in the appended claims.

[0028] Embodiments of the disclosure provide a method for displaying a conversation interface, and the method for displaying the conversation interface can be used in a mobile terminal such as a mobile phone. The mobile terminal can display a caller identification display interface when it receives a call request from a calling party, obtain a dynamic image associated with the calling party while displaying the caller identification display interface, and display the dynamic image in the caller identification display interface. The opposite party in the conversation is indicated by using dynamic images so that the display effect is diversified and visualized, which improves usage experience and visual experience of users.

[0029] Fig. 1 is a flow diagram of a method for displaying a conversation interface according to an exemplary embodiment. The method for displaying the conversation interface can be applied in a terminal, for instance a mobile terminal such as a mobile phone, and can comprise the following steps.

[0030] Step 101, a caller identification display interface is displayed when a call request is received from a calling party. In the present disclosure, the caller identification display interface means the user interface which is displayed when the terminal received a call request for a user to identify the caller.

[0031] Step 102, a dynamic image associated with the calling party is obtained while the caller identification display interface is displayed. The dynamic image may include a plurality of static images which are displayed in a preset frame speed repeatedly. The dynamic image may have an animation effect. The dynamic image may have a file format including one of the following: Graphics Interchange Format (GIF), MP4, WebM, or other video file format.

[0032] In the disclosed embodiment, the dynamic image associated with the calling party is pre-edited and stored locally, so the dynamic image associated with the calling party can be obtained from a conversation memory module.

[0033] Step 103, the dynamic image is displayed in the caller identification display interface.

[0034] As shown in Fig. 1A-1D, a caller identification display interface is provided. The terminal may display several frame images associated with the calling party dynamically in the caller identification display interface by way of example. The dynamic image, associated with the calling party, is displayed in the caller identification display interface while the calling party is in the process of making a call to the terminal so as to differentially display states of the calling party and improve a visual experience of the called party.

[0035] In one embodiment, the method for displaying the conversation interface further comprises: processing a stored static image associated with the calling party based on a predetermined image generation template so as to obtain and store a dynamic image associated with the calling party; or recording and storing dynamic images of a predetermined duration (or time), in association with the calling party, by opening a video recorder (in other words, a predetermined time or duration of dynamic images associated with the calling party is recorded and stored by opening a video recorder).

[0036] For example, the terminal provides an entry for editing dynamic images to a user, as shown in Fig. 1E. The embodiment of the disclosure provides a user with an interface for editing the dynamic images, wherein the entry for editing dynamic images is displayed in the display interface of the terminal. For example, the user may open a video recorder to record dynamic images associated with the calling party.

[0037] In one embodiment, processing the stored static image associated with the calling party based on the predetermined image generation template so as to obtain and store the dynamic image associated with the calling party comprises: determining if a current system time is a predetermined (or special) date; if the current system time is the predetermined date, obtaining an image generation template (that is, the predetermined image generation template) corresponding to the predetermined date; inserting the static image associated with the calling party into the obtained predetermined image generation template (or applying the obtained predetermined image generation template to the static image associated with the calling party) to generate the dynamic image associated with the calling party. In the present document, the system time means the time which is displayed by the terminal for a user to know the current time. The system time may be set by the user or by a network time server.

[0038] For example, the terminal may pre-store corresponding relationships between special dates (for example, Christmas Day, birthday, Spring Festival, Hallowmas) and image generation templates. As such, when the current system time is the special date, it can obtain an image generation template corresponding to the special date from the above corresponding relationships. The image generation template is a dynamic image and may have an image element which indicates the predetermined date. Further, the image generation template can contain an editable region so that the static image associated with the calling party is edited into the editable region, thereby a dynamic image is generated based on the image generation template.

[0039] In one embodiment, the method for displaying the conversation interface further comprises: displaying a call request interface when a called party is called (by the terminal); obtaining a dynamic image associated with the called party while the call request interface is being displayed; and displaying the dynamic image associated with the called party in the call request interface.

[0040] In one embodiment of the disclosure, the way of displaying the conversation interface while the terminal calls the called party is similar to the way of displaying the conversation interface while the terminal receives the call from the calling party, therefore it is not repeated herein.

[0041] In one embodiment, the method for displaying

conversation interface further comprises: when a request for viewing detailed information of a contact in an address book is received (by the terminal), displaying an information display interface of the contact and displaying a dynamic image associated with the contact in the information display interface.

[0042] As shown in Fig. 2A-2D, an information display interface of contacts in an address book may be provided. The terminal may display several frame images of the dynamic images associated with the calling party dynamically in the contact information display interface by way of example.

[0043] In one embodiment, the method for displaying the conversation interface further comprises: providing an information editing entry for a user to edit the dynamic image associated with the contact.

[0044] As shown in Fig. 2E, a user interface for editing the dynamic images associated with the contacts in the address book may be provided. The user can access to the editing interface through an editing entry displayed in the display interface to edit the dynamic images of the contact, for example, to record the dynamic images of the contact, or to select corresponding dynamic images from a dynamic image database. After the user has edited the dynamic images of the contact, the dynamic images may be displayed in a contact information display interface when the user opens the contact information display interface.

[0045] It should be noted that an order of the disclosure sharing steps provided by embodiments of the disclosure can be adjusted, and the steps can also be added or deleted according to requirements. For those skilled in the art, various modifications and improvements may be made without departing from the scope of embodiments of the disclosure, and all of which should fall within the protection scope of the disclosure, which is not repeated herein.

[0046] In summary, the embodiments of the disclosure provide a method for displaying the conversation interface. The method for displaying the conversation interface comprises: displaying a caller identification display interface when a call request is received from a calling party; obtaining a dynamic image associated with the calling party while displaying the caller identification display interface, and displaying the dynamic image in the caller identification display interface. The opposite party in the conversation is indicated by using dynamic images so that the display effect is diversified and visualized, which improves usage experience and visual experience of users.

[0047] The apparatus are provided in the following embodiments of the disclosure, which can be used to perform the method of the disclosure. For the details that are not described in apparatus embodiments of the disclosure, please refer to the method embodiments of the disclosure.

[0048] Fig. 3 is a block diagram of an apparatus 300 for displaying a conversation interface according to an exemplary embodiment. The apparatus 300 for displaying the conversation interface can be achieved by software, hardware or a combination of both so as to act as all of or a part of a mobile terminal. The mobile terminal can be a mobile phone. The apparatus 300 for displaying the conversation interface can comprise: a first display module 310 configured to display a caller identification display interface when a call request is received from a calling party; an image obtaining module 320 configured to obtain a dynamic image associated with the calling party while the first display module 310 displays the caller identification display interface and to display the dynamic image in the caller identification display interface displayed by the first display module 310.

[0049] In summary, the embodiments of the disclosure provide an apparatus for displaying a conversation interface, wherein the apparatus displays a caller identification display interface when a call request is received from a calling party; obtains a dynamic image associated with the calling party while displaying the caller identification display interface, and displays the dynamic image in the caller identification display interface. The opposite party in the conversation is indicated by using dynamic images so that the display effect is diversified and visualized, which improves usage experience and visual experience of users.

[0050] Fig. 4 is a block diagram of an apparatus 400 for displaying a conversation interface according to another exemplary embodiment. The apparatus 400 for displaying the conversation interface can be achieved by software, hardware or a combination of both so as to act as all of or a part of a terminal. The terminal can be a mobile phone. The apparatus 400 can include but are not limited to: a first display module 410 configured to display a caller identification display interface when a call request is received from a calling party; an image obtaining module 420 configured to obtain a dynamic image associated with the calling party while the first display module 410 displays the caller identification display interface and to display the dynamic image in the caller identification display interface displayed by the first display module 410; a first image generation module 430 configured to process a stored static image associated with the calling party based on a predetermined image generation template so as to obtain and store a dynamic image associated with the calling party; or a second image generation module 440 configured to record and store a dynamic images of a predetermined duration, in association with the calling party, by opening a video recorder.

[0051] Alternatively, Fig. 5 is a block diagram of the first image generation module 430 according to the embodiment shown by Fig. 4, which comprises: a decision unit 430a configured to determine if a current system time is a predetermined (or special) date; an obtaining unit 430b configured to obtain an image generation template (i.e. the so-called predetermined image generation template) corresponding to the predetermined date if the cur-

rent system time is the predetermined date; an image generation unit 430c configured to insert the static image associated with the calling party into the obtained predetermined image generation template (or to apply the obtained predetermined image generation template to the static image associated with the calling party) to generate the dynamic image associated with the calling party.

[0052] In one embodiment, the first display module 410 is further configured to display a call request interface when the terminal calls a called party; the image obtaining module 420 is further configured to obtain a dynamic image associated with the called party while the call request interface is displayed by the first display module 410, and display the dynamic image associated with the called party in the call request interface displayed by the first display module 410.

[0053] As shown in Fig. 6, the apparatus for displaying the conversation display interface shown in Fig. 4 may further comprises: a second display module 450 configured to display an information display interface of the contact and display a dynamic image associated with the contact in the information display interface when receiving a request for viewing detailed information of a contact in an address book; an editing module 460 configured to provide an information editing entry for a user to edit the dynamic image associated with the contact.

[0054] In summary, the embodiments of the disclosure provide an apparatus for displaying a conversation interface, wherein the apparatus displays a caller identification display interface when a call request is received from a calling party; obtains a dynamic image associated with the calling party while displaying the caller identification display interface, and displays the dynamic image in the caller identification display interface. The opposite party in the conversation is indicated by using dynamic images so that the display effect is diversified and visualized, which improves usage experience and visual experience of users.

[0055] For the apparatus of the above embodiments, the operation manner of each module is described in detail in the above method embodiments, so that it is not repeated herein.

[0056] The embodiment of the disclosure provides a terminal device (or terminal) for implementing the methods described above, wherein the terminal device can be a mobile phone, and the terminal device comprises: a processor; a memory configured to store instructions executable by the processor; wherein the processor is configured to: display a caller identification display interface when a call request is received from a calling party; obtain a dynamic image associated with the calling party while displaying the caller identification display interface; and display the dynamic image in the caller identification display interface.

[0057] Referring to Fig. 7, it shows a block diagram of an apparatus 500 for displaying a conversation interface according to an exemplary embodiment. For example, the apparatus 500 can be a mobile phone, a computer, a digital broadcasting terminal, a message transceiver, a game console, a tablet device, a medical device, an exercise facility, a personal digital assistant, and the like.

[0058] As shown in Fig. 7, the apparatus 500 can comprises one or more of the following components: a processing component 502, a memory 504, a power supply component 506, a multimedia component 508, an audio component 510, an input/output (I/O) interface 512, a sensor component 514 and a communication component 516.

[0059] The processing component 502 typically controls entire operations of the apparatus 500, such as operations relevant to displaying, phone calling, data communication, camera operation, and recording operation. The processing component 502 can comprise one or more processors 520 for executing instructions to implement all of or a part of steps of the method as described above. Further, the processing component 502 can comprises one or more modules for assisting interaction between the processing component 502 and other components. For example, the processing component 502 can comprise a multimedia module for interaction between the multimedia component 508 and the processing component 502.

[0060] The memory 504 is configured to store any kind of data in order for supporting operations of the apparatus 500. Examples of the data include any application or method instructions for execution on the apparatus 500, contact data, phone book data, messages, pictures, videos and so on. The memory 504 can be implemented as any kind of volatile and non-volatile memory device or any combination thereof, such as Static Random Access Memory (SRAM), Electrically Erasable Programmable Read-Only Memory (EEPROM), Erasable Programmable Read-Only Memory (EPROM), Programmable Read-Only Memory (PROM), Read-Only Memory (ROM), magnetic memory, flash memory, magnetic or optical disk.

[0061] The power component 506 supplies power to the various components of the apparatus 500. The power supply component 506 can comprise a power management system, one or more power supplies and other components associated with power generation, management and allocation of the apparatus 500.

[0062] The multimedia component 508 comprises a screen for providing an output interface between the apparatus 500 and the user. In some embodiments, the screen can comprise Liquid Crystal Display (LCD) and Touch Panel (TP). In the case where the screen comprises a touch panel, the screen can be implemented as a touch screen for receiving input signals from the user. The touch panel comprises one or more touch sensors for sensing touches, sliding, and gestures on the touch panel. The touch sensor not only can sense boundary line of an action of touch or sliding, but also can sense duration period and pressure of the action of touch or sliding. In some embodiments, the multimedia component 508 comprises a frond camera and/or a rear camera. When the apparatus 500 is in an operation mode such

as capture mode or video mode, the front camera and/or the rear camera can receive multimedia data from outside. Each of the front camera and the rear camera can be a fixed optical lens system or has capability of focus and optical zoom.

[0063] The audio component 510 is configured to input and/or output audio signals. For example, the audio component 510 comprises a microphone (MIC), and when the apparatus 500 is in an operation mode such as calling mode, recording mode or voice recognition mode, the microphone is configured to receive audio signals from outside. The received audio signals can be further stored in the memory 504 or transmitted via the communication component 516.

[0064] The I/O interface 512 provides an interface between the processing component 502 and a periphery interface module. The periphery interface module may be a keyboard, a click wheel, and buttons or the like. The buttons comprise but are not limited to a home page button, a volume button, a start button, and a lock button.

[0065] The sensor component 514 comprises one or more sensors for providing the apparatus 500 with various aspects of status estimations. For example, the sensor component 514 can sense open/close status of the apparatus 500 and relative position of a component, for example, the component may be the display or the small keyboard of the apparatus 500. The sensor component 514 can also sense change in position of the apparatus 500 or a component thereof, presence of contact by a user with the apparatus 500, direction, acceleration, deceleration of the apparatus 500, and change in temperature of the apparatus 500. The sensor component 514 can also comprise an approaching sensor configured to sense presence of adjacent objects without any physical contact. The sensor component 514 can also comprise an optical sensor such as CMOS or CCD image sensor for use in image capture. In an embodiment, the sensor component 514 can also comprise an acceleration sensor, a gyroscope sensor, a magnetic sensor, a pressure sensor or a temperature sensor.

[0066] The communication component 516 is configured to assist wired or wireless communication between the apparatus 500 and other devices. The apparatus 500 can access a wireless network based on a communication standard such as WiFi, 2G or 3G or any combination thereof. In an exemplary embodiment, the communication component 516 receives broadcast signals or broadcast related information from an outside broadcast management system via a broadcast channel. In an exemplary embodiment, the communication component 516 can also comprise a Near Field Communication (NFC) module for assisting short range communication. For example, the NFC module can be implemented based on Radio Frequency Identification (RFID) technology, Infrared Data Association (IrDA) technology, Ultra Wideband (UWB) technology, Blue Tooth (BT) technology and other technologies.

[0067] In an exemplary embodiment, the apparatus 500 can be implemented with one or more Application Specific Integrated Circuits (ASICs), Digital Signal Processors (DSPs), Digital Signal Processing Devices (DSPDs), Programmable Logic Devices (PLDs), Field Programmable Gate Arrays (FPGAs), controllers, microcontrollers, or other electronic elements for performing the method as described above.

[0068] In an exemplary embodiment, there provides a non-temporary computer readable memory medium containing instructions, such as the memory 504 having instructions that are executable by the processor(s) 520 to perform the method as described above. For example, the non-temporary computer readable memory medium may be a ROM, a RAM, a CD-ROM, a magnetic disk, a floppy disk, an optical data memory device or the like.

[0069] A non-temporary computer readable memory medium having instructions, the instructions, when executed by a processor of a terminal, enables the apparatus 500 to perform a method for displaying the conversation interface.

[0070] With considering disclosure of the present specification and doing practices accordingly, it is obvious for those skilled in the art to anticipate other embodiments of the disclosure. The application intends to cover all of variations, applications and adaption of the disclosure, which comply with the general concept of the disclosure and comprise those customary technical means or common knowledge in the art that are not disclosed in the disclosure. The specification and embodiments are merely considered to be exemplary and the substantive scope of the disclosure is limited only by the appended claims.

[0071] It should be understood that the disclosure is not limited to the precise structure as described above and shown in the figures, but can have various modification and alternations without departing from the scope of the disclosure. The scope of the disclosure is limited only by the appended claims.

Claims

1. A method for displaying a conversation interface used in a terminal, **characterized in** comprising:

   displaying (101) a caller identification display interface when a call request is received from a calling party;
   obtaining (102) a dynamic image associated with the calling party while displaying the caller identification display interface; and
   displaying (103) the dynamic image in the caller identification display interface.

2. The method of claim 1, further comprising:

   processing a stored static image associated with the calling party based on a predetermined im-

age generation template so as to obtain and store a dynamic image associated with the calling party; or
recording and storing dynamic images of a predetermined duration, in association with the calling party, by opening a video recorder.

3. The method of claim 2, wherein said processing of the stored static image associated with the calling party based on the predetermined image generation template comprises:

determining if a current system time is a predetermined date;
if the current system time is the predetermined date, obtaining the predetermined image generation template corresponding to the predetermined date;
inserting the static image associated with the calling party into the obtained predetermined image generation template to generate the dynamic image associated with the calling party.

4. The method of any one of claims 1to 3, further comprising:

displaying a call request interface when calling a called party;
obtaining a dynamic image associated with the called party while displaying the call request interface; and
displaying the dynamic image associated with the called party in the call request interface.

5. The method of any one of claims 1 to 4, further comprising:

when receiving a request for viewing detailed information of a contact in an address book, displaying an information display interface of the contact and displaying a dynamic image associated with the contact in the information display interface.

6. The method of claim 5, further comprising:

providing an information editing entry for a user to edit the dynamic image associated with the contact.

7. An apparatus for displaying a conversation interface used in a terminal, **characterized in** comprising:

a first display module (420) configured to display a caller identification display interface when a call request is received from a calling party;
an image obtaining module (410) configured to obtain a dynamic image associated with the calling party while the first display module (420) displays the caller identification display interface, and display the dynamic image in the caller identification display interface displayed by the first display module (420).

8. The apparatus of claim 7, further comprising:

a first image generation module (430) configured to process a stored static image associated with the calling party based on a predetermined image generation template so as to obtain and store a dynamic image associated with the calling party; or
a second image generation module (440) configured to record and store dynamic images of a predetermined duration, in association with the calling party, by opening a video recorder.

9. The apparatus of claim 8, wherein the first image generation module (430) comprises:

a decision unit (430a) configured to determine if a current system time is a predetermined date;
an obtaining unit (430b) configured to obtain the predetermined image generation template corresponding to the predetermined date if the current system time is the predetermined date;
an image generation unit (430c) configured to insert the static image associated with the calling party into the obtained predetermined image generation template to generate the dynamic image associated with the calling party.

10. The apparatus of any one of claims 7 to 9, wherein the first display module (420) is further configured to display a call request interface when calling a called party;
the image obtaining module (410) is further configured to obtain a dynamic image associated with the called party while the first display module displays the call request interface, and display the dynamic image associated with the called party in the call request interface displayed by the first display module (420).

11. The apparatus of any one of claims 7 to 10, further comprising:

a second display module (450) configured, when receiving a request for viewing detailed information of a contact in an address book, to display an information display interface of the contact and display a dynamic image associated with the contact in the information display interface.

12. The apparatus of claim 11, further comprising:

an editing module (460) configured to provide an information editing entry for a user to edit the dynamic image associated with the contact.

13. A computer program including instructions for executing the steps of a method according to any one of claims 1 to 6 when said program is executed by a computer.

14. A recording medium readable by a computer and having recorded thereon a computer program including instructions for executing the steps of a method according to any one of claims 1 to 6.

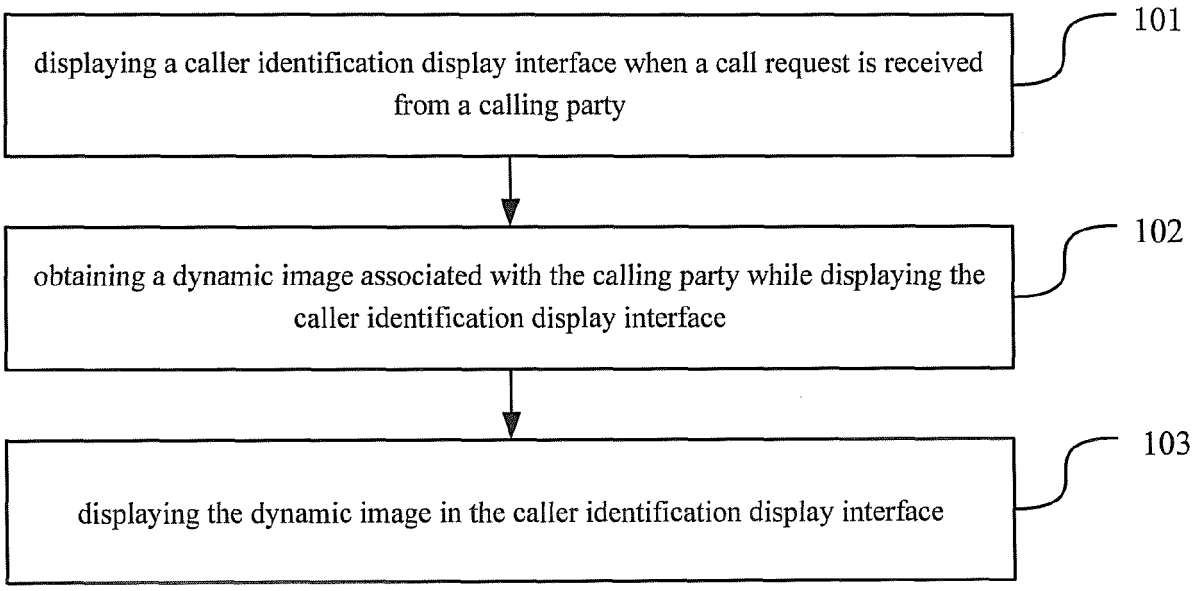

displaying a caller identification display interface when a call request is received from a calling party
101
obtaining a dynamic image associated with the calling party while displaying the caller identification display interface
102
displaying the dynamic image in the caller identification display interface
103

FIG. 1

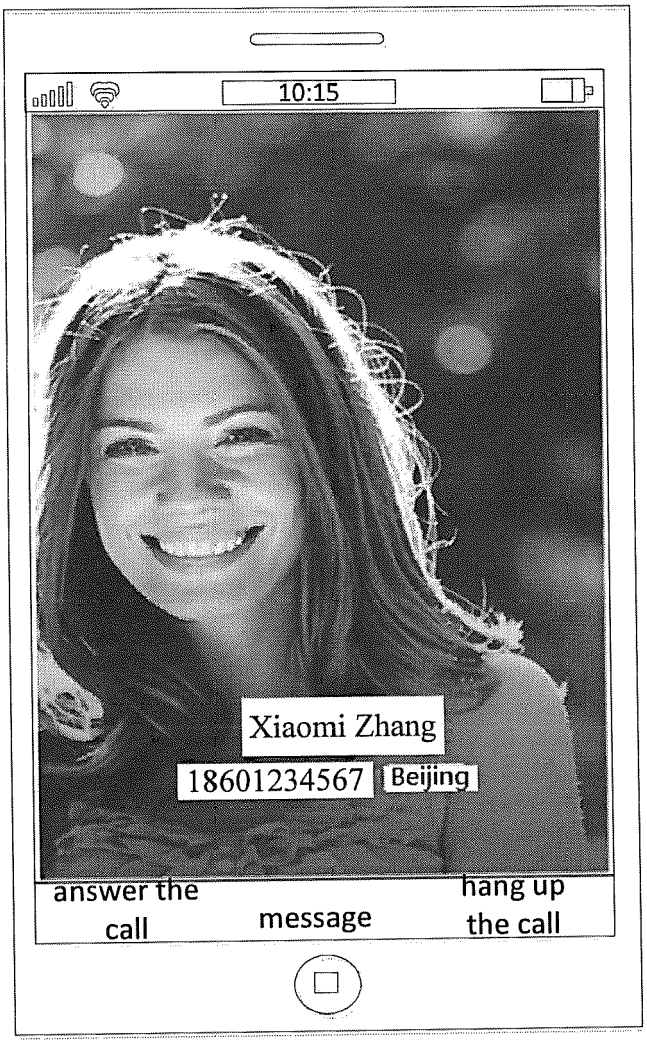

10:15
Xiaomi Zhang
18601234567
Beijing
answer the call
message
hang up the call

FIG. 1A

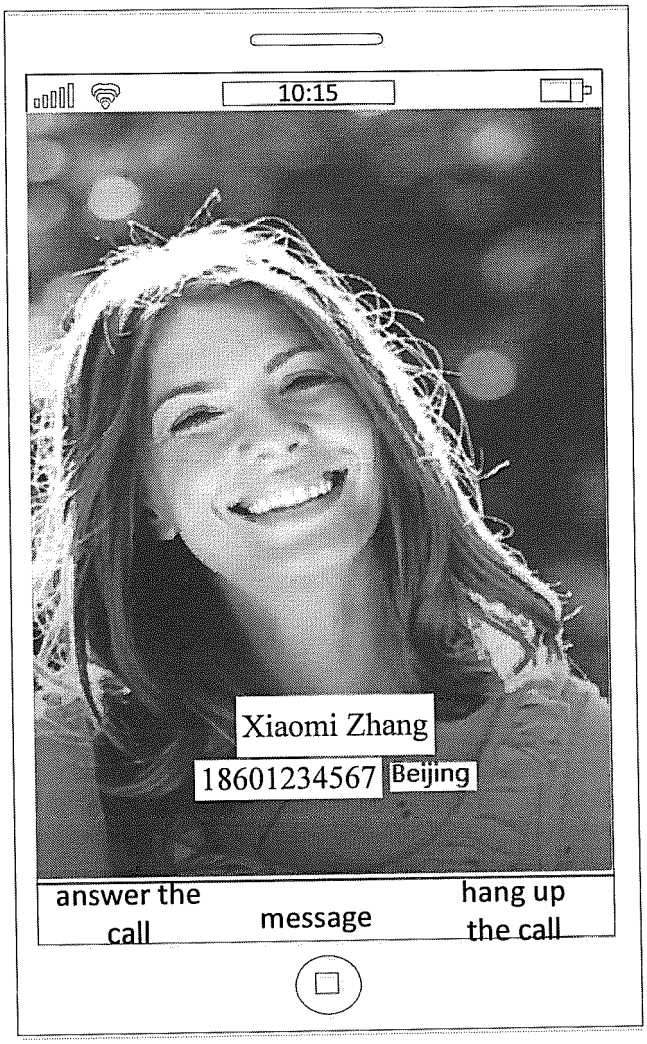

10:15
Xiaomi Zhang
18601234567
Beijing
answer the call
message
hang up the call

FIG. 1B

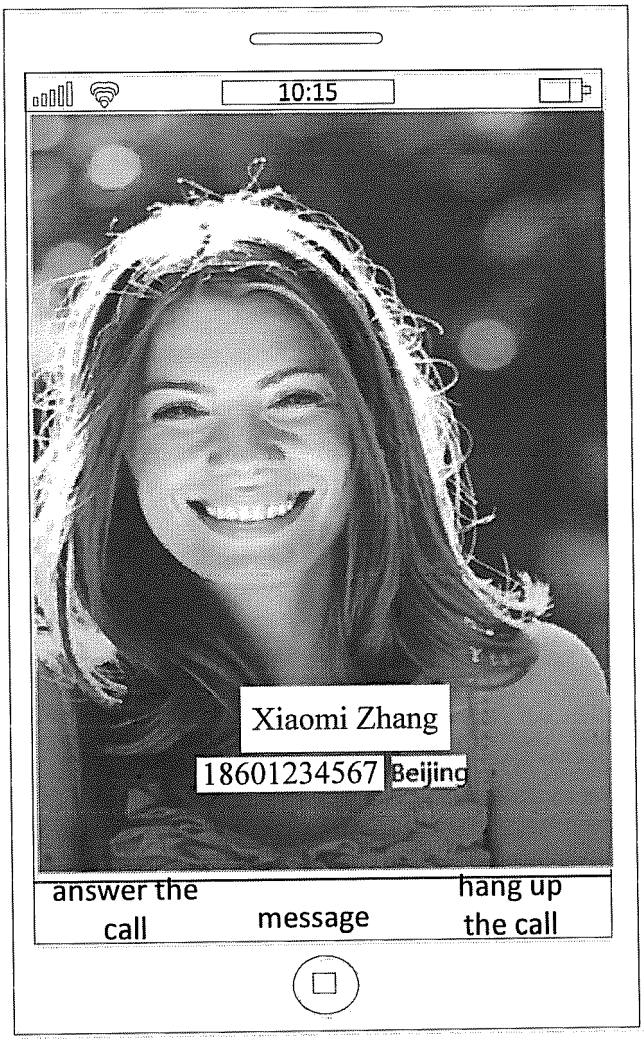

10:15
Xiaomi Zhang
18601234567 Beijing
answer the call
message
hang up the call

FIG. 1C

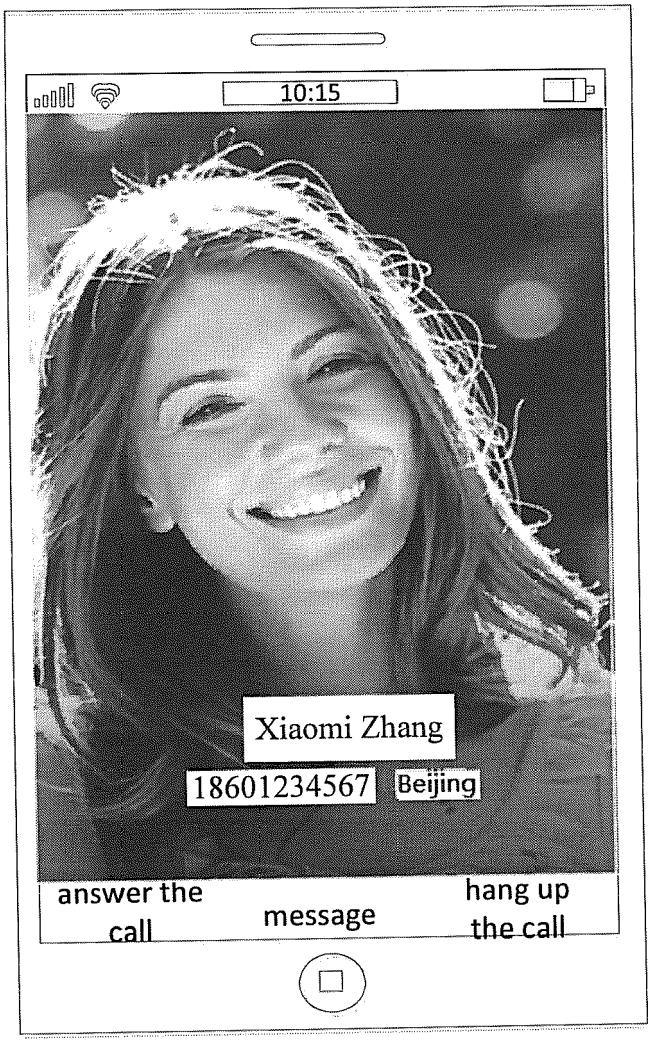

10:15
Xiaomi Zhang
18601234567
Beijing
answer the call
message
hang up the call

FIG. 1D

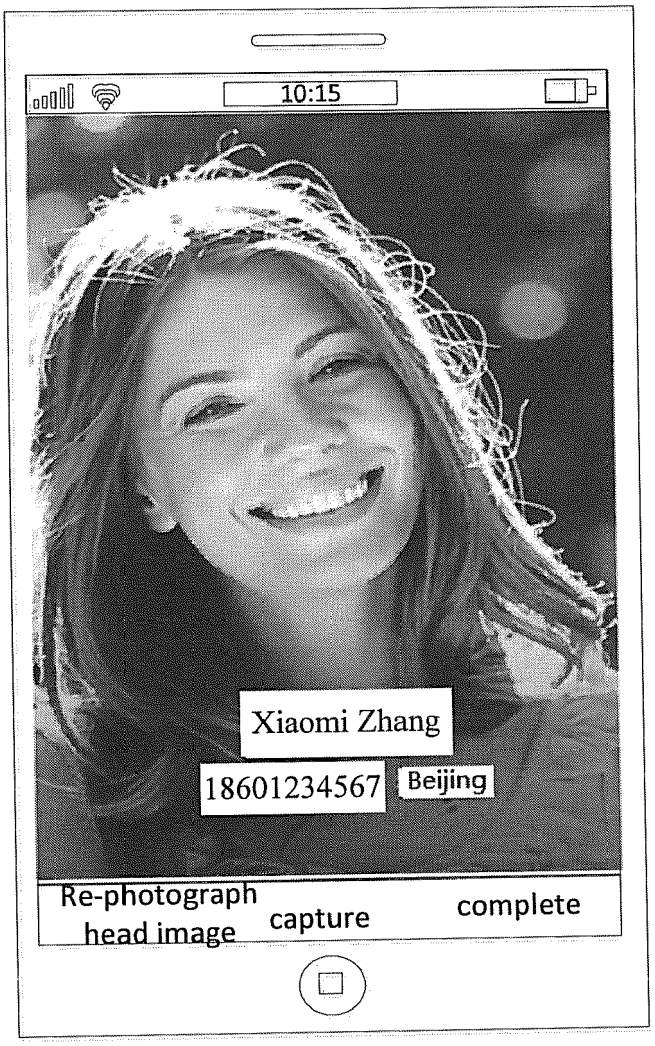

10:15
Xiaomi Zhang
18601234567
Beijing
Re-photograph head image
capture
complete

FIG. 1E

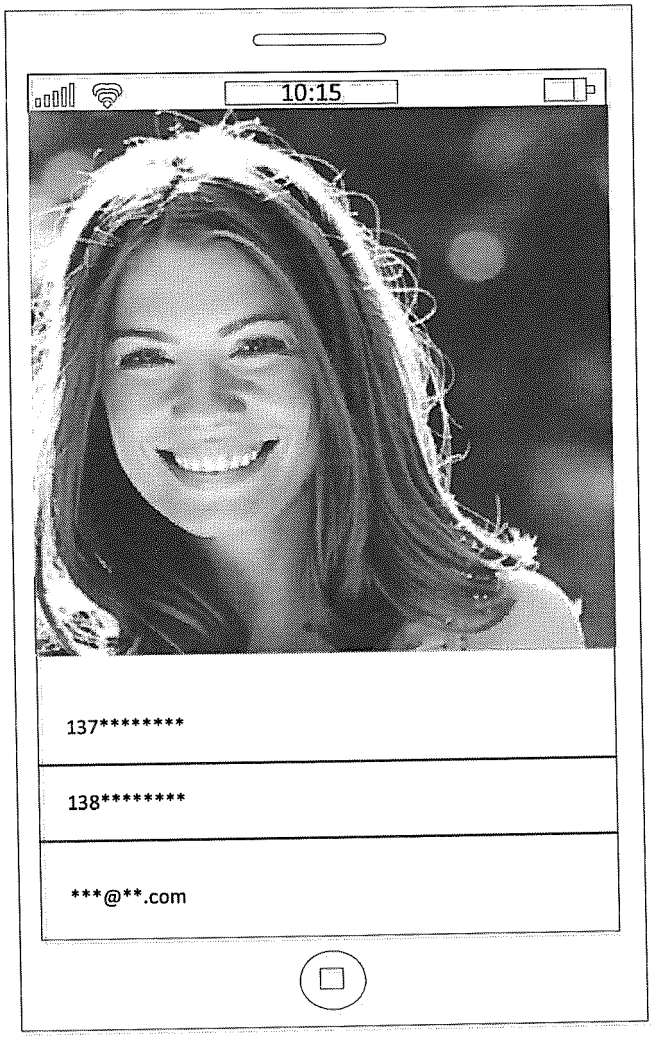


FIG. 2A

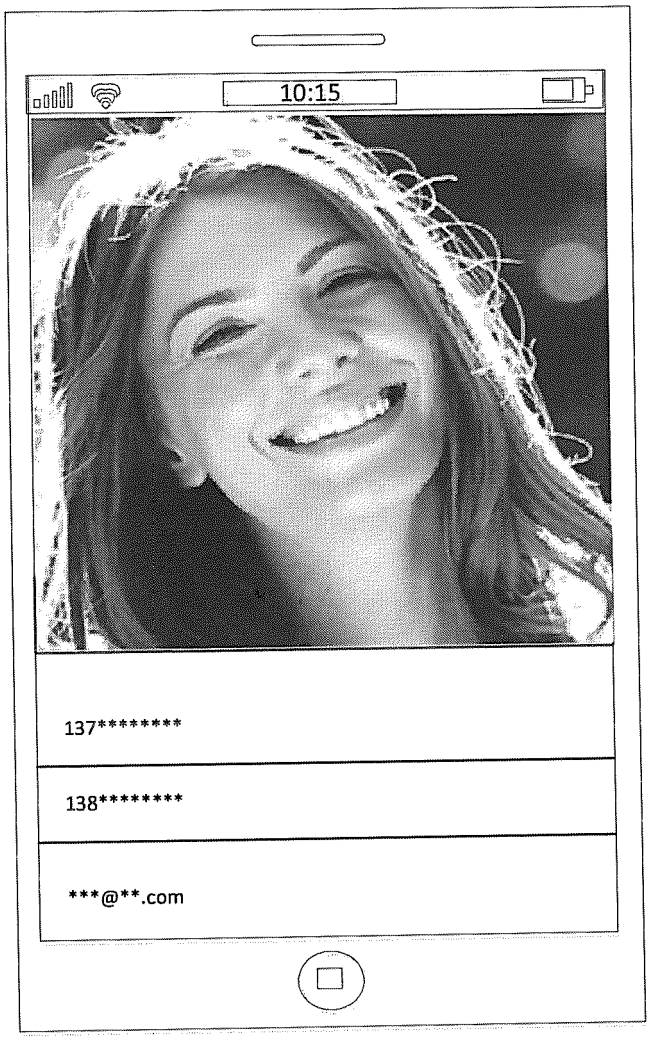


FIG. 2B

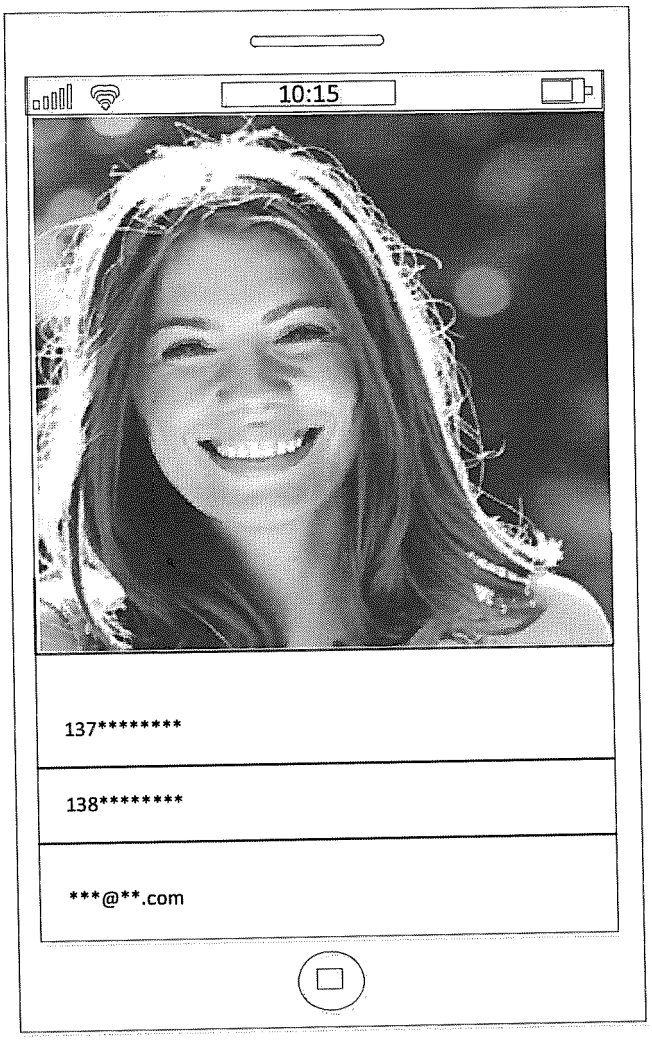


FIG. 2C

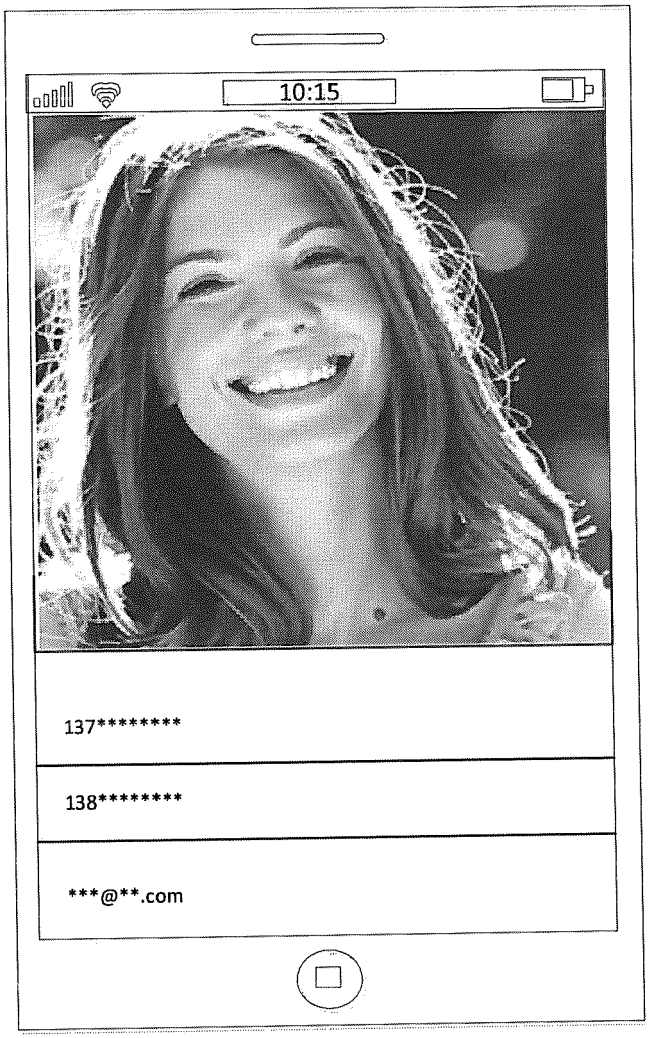


FIG. 2D

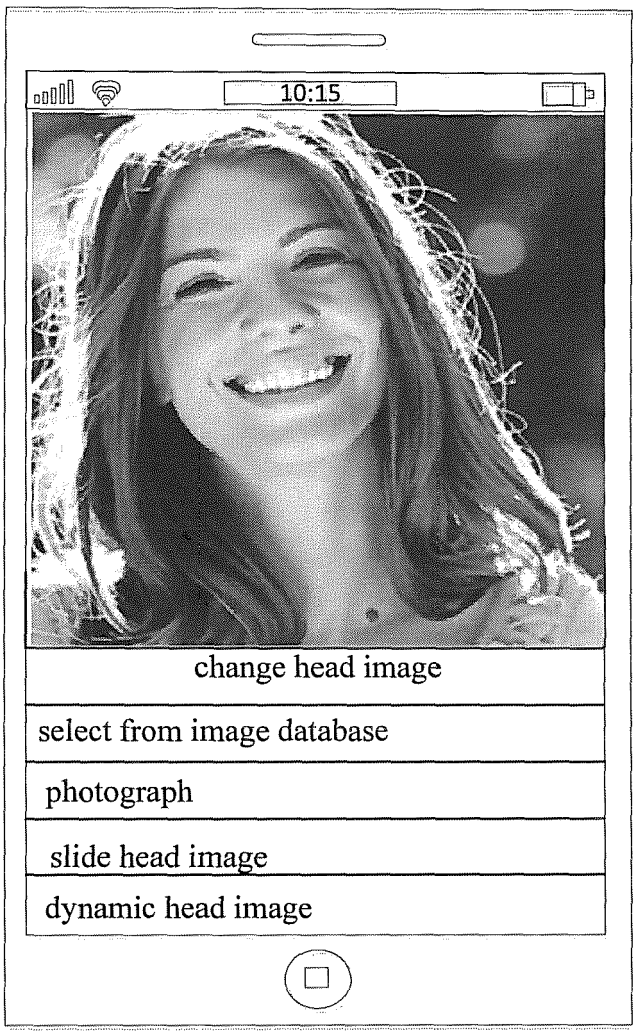

10:15
change head image
select from image database
photograph
slide head image
dynamic head image

FIG. 2E

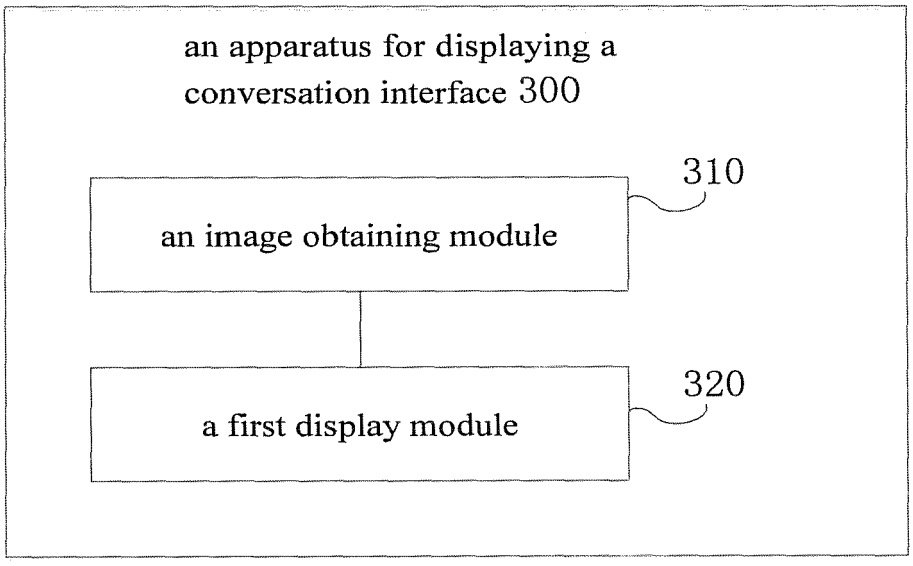

an apparatus for displaying a conversation interface 300
310
an image obtaining module
320
a first display module

FIG. 3

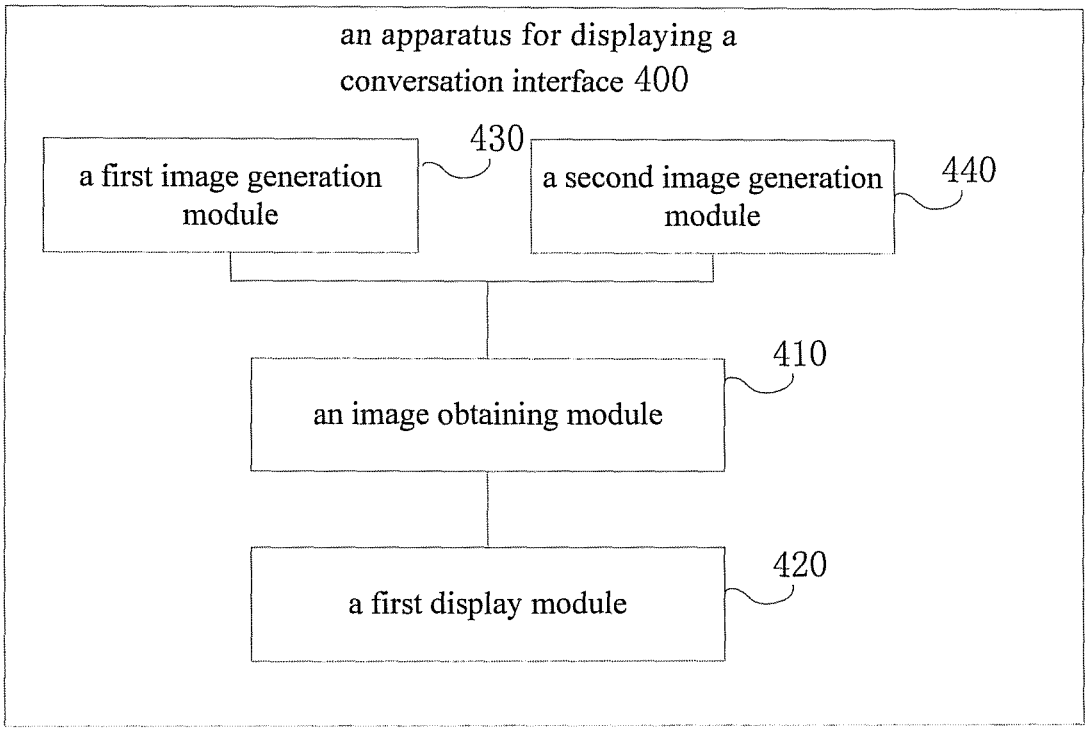

an apparatus for displaying a conversation interface 400
a first image generation module
430
a second image generation module
440
an image obtaining module
410
a first display module
420

FIG. 4

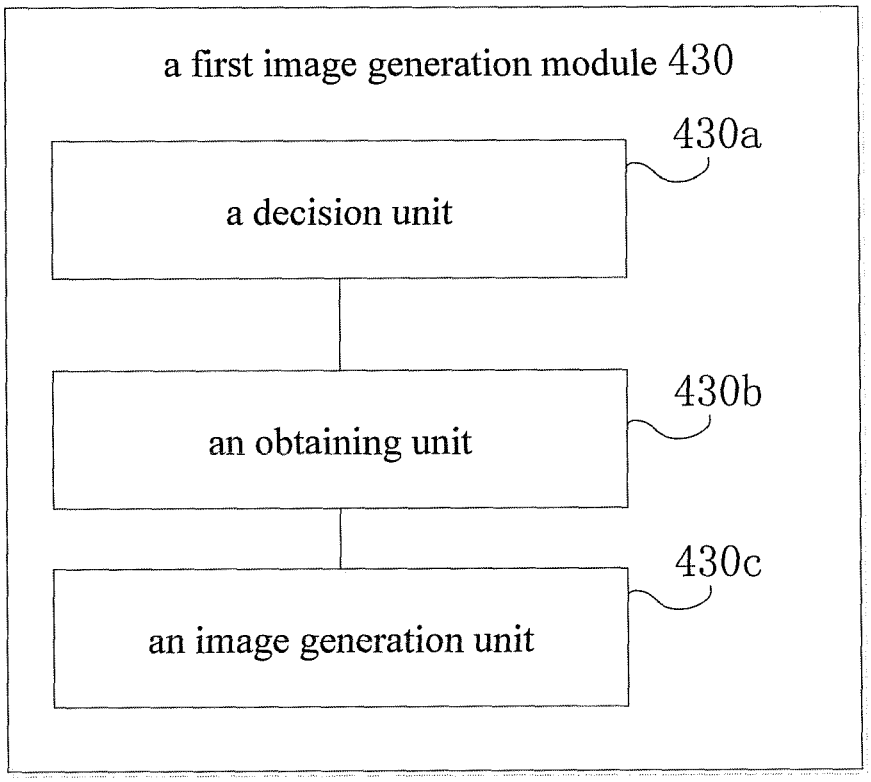

a first image generation module 430
430a
a decision unit
430b
an obtaining unit
430c
an image generation unit

FIG. 5

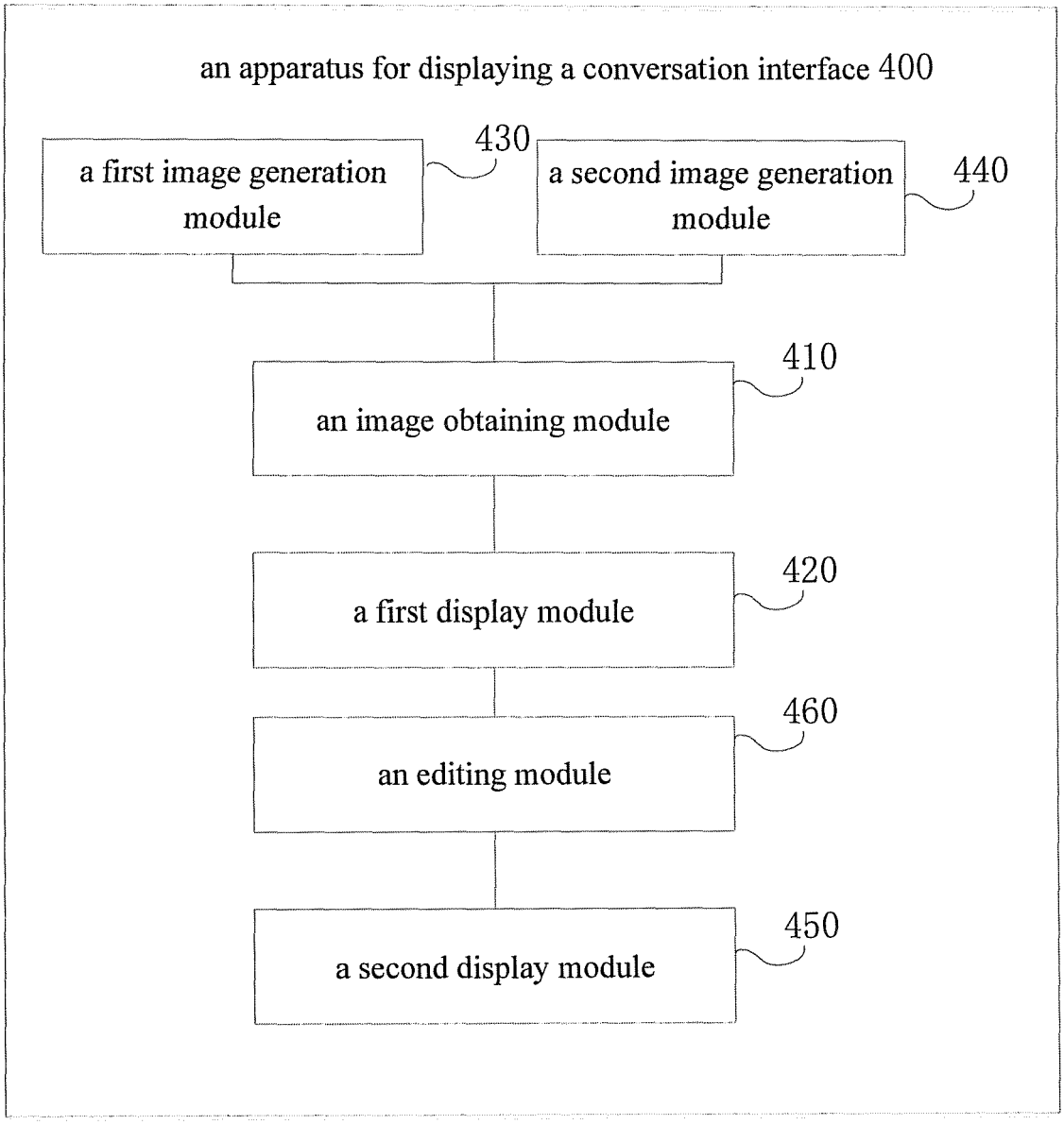

an apparatus for displaying a conversation interface 400
a first image generation module
430
a second image generation module
440
an image obtaining module
410
a first display module
420
an editing module
460
a second display module
450

FIG. 6

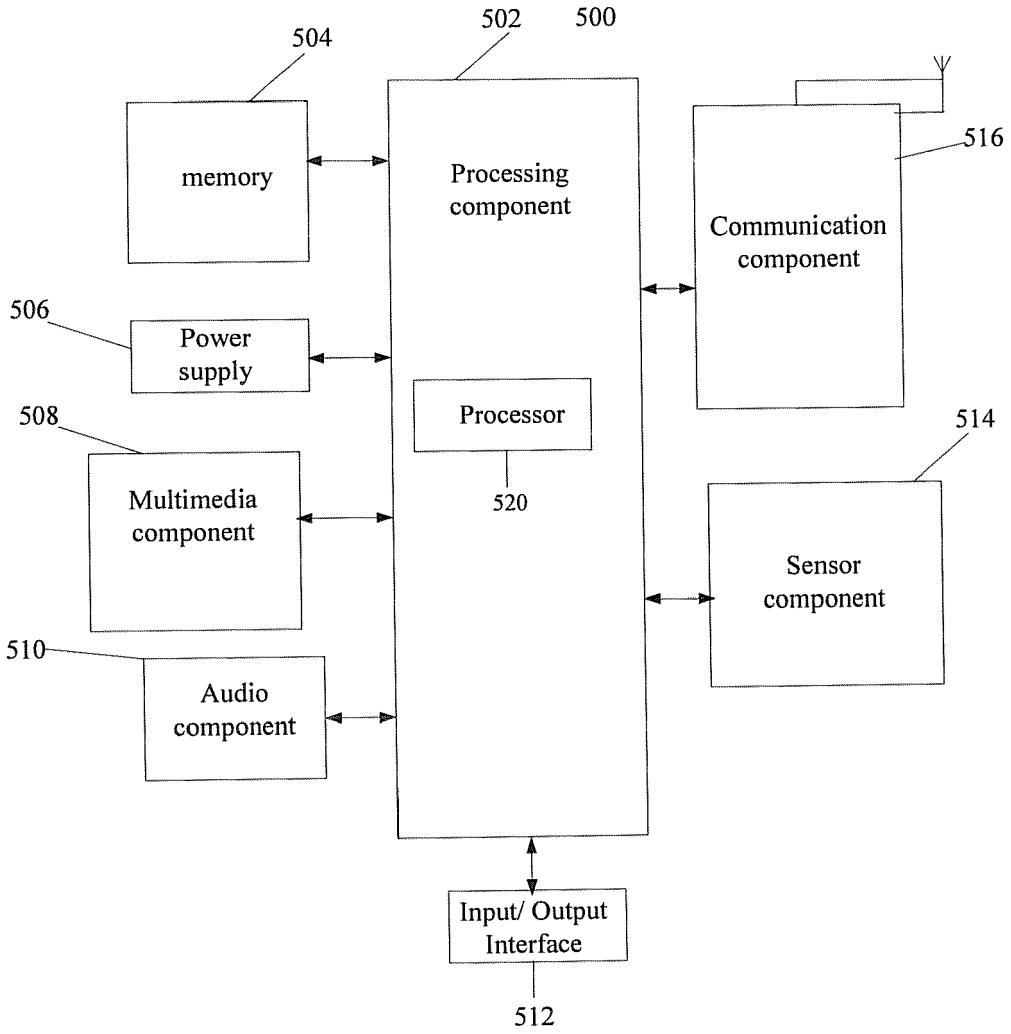

502
500
504
memory
Processing component
516
Communication component
506
Power supply
Processor
520
508
Multimedia component
514
Sensor component
510
Audio component
Input/ Output Interface
512

FIG. 7

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EUROPEAN SEARCH REPORT

Application Number
EP 16 15 7929

DOCUMENTS CONSIDERED TO BE RELEVANT

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TECHNICAL FIELDS SEARCHED (IPC)

H04M

The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
The Hague	13 September 2016	Bernardini, Andrea

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13-09-2016

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